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Dairy Production

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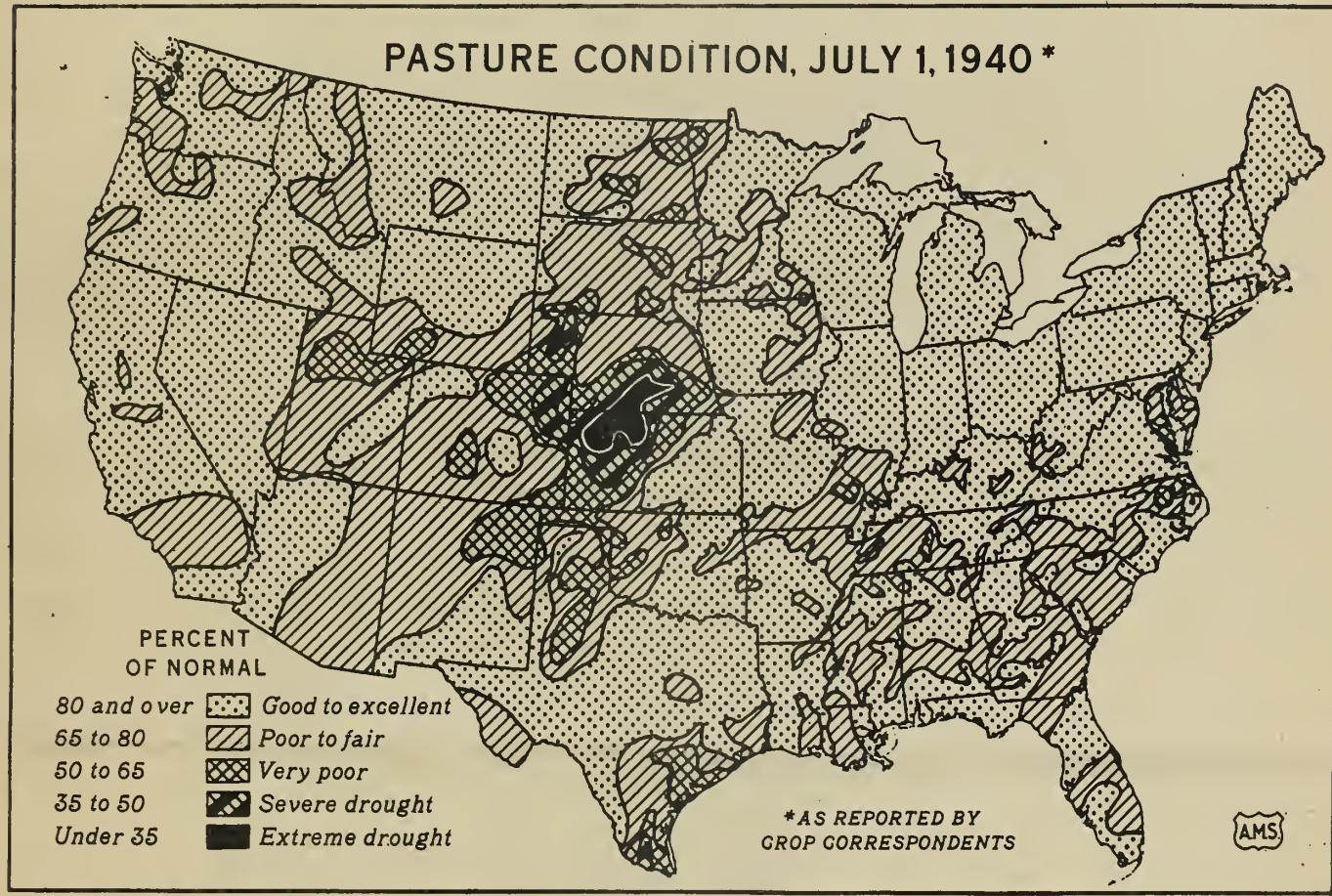
AGRICULTURAL MARKETING SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

No. 3



July 15, 1940



U. S. DEPARTMENT OF AGRICULTURE

NEG. 258

AGRICULTURAL MARKETING SERVICE

Pastures on July 1 were particularly good from Wisconsin and Indiana eastward, and were equal to or above the 10-year average for the date in all but 5 States. The abundance of pasturage during June was one of the factors responsible for the heavy milk production and for new high monthly records of creamery butter and cheese manufactured. The use of the reports on the condition of pasture is explained on page 8.

MILK PRODUCTION SUMMARY

Milk production, held down during part of May by the lateness of pastures, was relatively high through June, the Agricultural Marketing Service reports. The total for the month was fully 3 percent above output during the same period last year and milk production per capita was probably higher than in any previous month. Production of the principal manufactured dairy products increased in June to an indicated total more than 3 percent over last year and 1 percent over the previous high record. Both this high production during June and the relatively lower production during May appear to have resulted from a delay in the normal seasonal increase in production as the pasture season opens.

Production in June exceeded trade disappearance by about the usual amount and stocks of dairy products in storage increased normally. The quantity of butter held or financed by Government agencies was small, much lower than a year ago. Deducting Government holdings of butter, commercial stocks of dairy products were about normal and 1 percent less than a year ago.

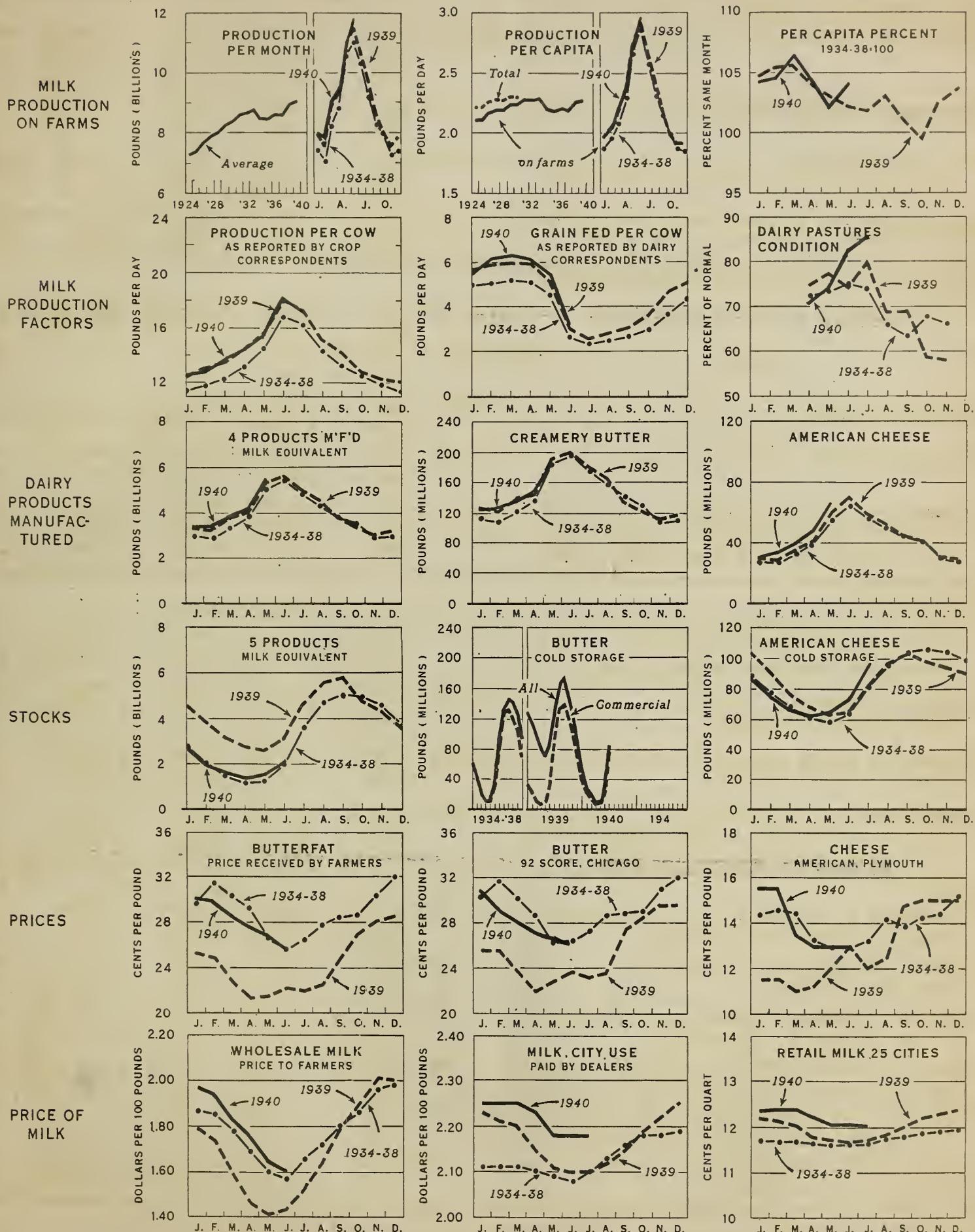
Prices paid to producers for dairy products during the last few months have been close to the 1934-38 average and substantially higher than a year ago. Prices of feed grain are up by about the same percentage, but prices of commercial feedstuffs average no higher than a year ago and some kinds are much cheaper. Price relationships are not unfavorable for supplementary feeding. Feed grain supplies during the next 12 months are expected to be about as plentiful, relative to livestock, as during the past 12 months and hay supplies are expected to be large. Dairy herds are gradually being increased. Obviously, if favored by good weather and a continuation of present conditions the production of milk and dairy products might continue above average for sometime. But during the first six months of this year the increase in milk production over last year has been proportional to the increase in population.

Output of manufactured dairy products (milk equivalent) is estimated to have been about 3 percent higher in June than in that month last year. Creamery butter production in June, estimated to be 2 percent larger than last year, probably set a new monthly record, and production appears to have continued about 2 percent above last year in early July. American cheese production seems likely to have been as high or slightly higher than in the previous record month, June 1938.

Stocks of dairy products on July 1 included light supplies of butter and condensed milk, large holdings of cheese and evaporated milk, and usual holdings of cream. Cold storage holdings of butter were the smallest for the date in 10 years, with the exception of the drought years, 1934 and 1936. The quantity held or financed by governmental agencies was only about 2 million pounds compared with 38 million pounds on the same date last year. The holdings of cheese and evaporated milk on July 1 were probably second high for the date but not unusually large in comparison with the increased yearly production. Holdings of all five products, excluding butter held by government agencies, were equivalent to about 3,760 million pounds of milk or 1 percent less than last year.

Prices of dairy products have not changed much in recent weeks except that the price of cheese has advanced. In mid-June the price paid to farmers for milk averaged about 11 percent higher than last year and the price of butterfat was 15 percent higher. Prices to farmers in mid-July were probably even higher compared with last year, judging from changes in prices of creamery butter and cheese. When compared with feed prices, the prices of dairy products appear favorable for feeding in some milk-selling areas but not so favorable in areas which feed chiefly home-raised grain and sell butterfat.

DAIRY PRODUCTION: GRAPHIC SUMMARY FOR THE UNITED STATES



UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Dairy Production

July 15, 1940

SUMMARY OF DAIRY STATISTICS FOR THE UNITED STATES

			Average:	1940		
			1934-38:	1939	Total	Percent
			:	:	or avg.	of 1939
MILK PRODUCTION ON FARMS			:	:	:	:
Total, per month.....	mil.lbs.	Apr.	: 8,809	: 9,347	: 9,447a/	: 101.1
		May	: 10,537	: 11,084	: 11,067a/	: 99.8
		June	: 10,996	: 11,464	: 11,805a/	: 103.0
Per capita, daily average.....	lbs.	May	: 2.649	: 2.728	: 2.704a/	: 99.1
		June	: 2.855	: 2.914	: 2.979a/	: 102.2
Per cow, per day.....	lbs.	May 1	: 14.45	: 15.63	: 15.42	: 98.7
(As reported by crop correspondents)		June 1	: 16.78	: 17.98	: 18.03	: 100.3
		July 1	: 16.24	: 17.27	: 17.43	: 100.9
DAIRY PASTURES: Condition, % of normal	pct.	June 1	: 75.0	: 74.1	: 82.6	: 111.5
		July 1	: 73.9	: 79.8	: 85.5	: 107.1
PRODUCTION OF MANUFACTURED DAIRY PRODUCTS			:	:	:	:
Creamery butter, monthly.....	mil.lbs.	May	: 182.9	: 192.4b/	: 188.6b/	: 98.0
		June	: 195.3	: 199.7a/	: 204.0ad/	: 102.2
weekly.....	week ending	June 27	: ---	: ---	: ---	: 100.2
		July 4	: ---	: ---	: ---	: 102.1
American cheese.....	mil.lbs.	May	: 55.5	: 61.6b/	: 67.8b/	: 110.1
		June	: 63.8	: 69.7b/	: 74.6ad/	: 107.0
Evaporated milk, case.....	mil.lbs.	Apr.	: 178.5	: 199.2a/	: 225.1a/	: 113.0
		May	: 237.2	: 268.5a/	: 282.0a/	: 105.0
4 products, milk equivalent.....	mil.lbs.	Apr.	: 3,768	: 4,014	: 4,221	: 105.2
(Creamery butter x 21, all cheese except skim x 10, canned cond. & evap. milk x 2.2)		May	: 5,092	: 5,419	: 5,461	: 100.8
		June	: 5,469	: 5,658	: ---	: 103.4c/
STOCKS ON HAND			:	:	:	:
Butter in cold storage.....	mil.lbs.	June 1	: 31.9	: 84.4	: 25.5	: 30.2
(Including government holdings)		July 1	: 89.0	: 131.6	: 80.8a/	: 61.4
Commercial holdings, only.....		July 1	: 88.0	: 93.1	: 78.7a/	: 84.5
American cheese.....	mil.lbs.	June 1	: 62.9	: 64.8	: 73.1	: 112.8
(Cold storage holdings)		July 1	: 80.7	: 81.3	: 96.2a/	: 118.3
Evaporated milk, case.....	mil.lbs.	May 1	: 113.2	: 134.6	: 207.7	: 154.3
(Manufacturers' stocks)		June 1	: 195.4	: 209.0	: 287.8	: 137.7
5 products, milk equivalent.....	mil.lbs.	May 1	: 1,206	: 2,608	: 1,505	: 57.7
(Butter, all cheese, canned cond. & evap. milk plus cream in cold storage)		June 1	: 1,982	: 3,158	: 2,188	: 69.3
		July 1	: 3,622	: 4,629	: 3,809cd/	: 82.3
PRICES			:	:	:	:
Butterfat, per pound.....	cts.	May 15	: 26.6	: 21.5	: 26.9	: 125.1
(Prices received by farmers)		June 15	: 25.6	: 22.2	: 25.6	: 115.3
Butter, wholesale, per pound.....	cts.	June	: 26.4	: 23.6	: 26.3	: 111.4
(92 score, Chicago)		July	: 27.4	: 23.2	: 26.5c/	: 114.2
American cheese, wholesale, per pound.....	cts.	June 15	: 12.95	: 13.00	: 13.00	: 100.0
(Twins, Plymouth, Wisconsin)		July 15	: 13.25	: 12.00	: 14.00d/	: 116.7
Milk, wholesale, per 100 pounds.....	dol.	May 15	: 1.60	: 1.42	: 1.66b/	: 116.9
(All purposes, prices received by farmers)		June 15	: 1.57	: 1.45	: 1.61a/	: 111.0
Milk for city distribution, per 100 pounds...	dol.	June	: 2.08	: 2.10	: 2.18	: 103.8
(Prices paid by dealers, 3.5% basis)		July	: 2.10	: 2.10	: 2.18	: 103.8
Milk, retail, delivered, per quart.....	cts.	June	: 11.59	: 11.67	: 12.06	: 103.3
(Average, 25 markets)		July	: 11.63	: 11.72	: 12.02a/	: 102.6

a/ Preliminary. b/ Preliminary revision. c/ Forecast or interpolation.

d/ Not available when accompanying chart was prepared. e/ Price July 12.

Milk production during June, estimated at 11.8 billion pounds, exceeded production in June last year by more than 3 percent. The Indicated June production per capita was about 2 percent higher than a year ago and more than 4 percent above the 5-year 1934-38 average for the month.

MONTHLY MILK PRODUCTION ON FARMS, UNITED STATES
1934-38 Average, 1939, and 1940

	<u>MONTHLY TOTAL</u>		<u>DAILY AVERAGE PER CAPITA</u>			
	<u>1934-38</u>	<u>1939</u>	<u>1940</u>	<u>1934-38</u>	<u>1939</u>	<u>1940</u>
	<u>Million pounds</u>		<u>Pounds</u>			
January	7,422	7,935	7,961	1.870	1.957	1.949
February	7,044	7,534	7,791	1.930	2.056	2.038
March	8,231	8,869	9,006	2.069	2.185	2.202
April	8,809	9,347	9,447	2.290	2.379	2.386
May	10,537	11,084	11,067	2.649	2.728	2.704
June	10,996	11,464	11,805	2.855	2.914	2.979
July	10,266	10,671		2.578	2.623	
August	9,194	9,672		2.307	2.376	
September	8,262	8,533		2.141	2.165	
October	7,942	8,077		1.990	1.981	
November	7,227	7,556		1.870	1.914	
December	7,383	7,816		1.847	1.915	

Milk production per cow on July 1 appears to have averaged the highest for the date in more than 10 years, and to have exceeded the 1929-38 average for July 1 in all but 3 of the 48 States. In herds kept by crop correspondents milk cows on July 1 this year produced an average of 17.43 pounds of milk per cow in herd,-- about 7 percent above average for the date and 1 percent higher than the 17.27 pounds reported for the date last year.

In the NORTH ATLANTIC STATES a cool June and excellent pastures favored milk production, in sharp contrast to conditions at this season last year when the effects of drought were being felt. This year the production per cow reported for July 1 set a new record for the date in this area, and showed much less than the usual decline from June 1. Although dairy pastures in this area were the best for July 1 since 1923, farmers were feeding 15 percent more grain and concentrates per milk cow than has been usual at that season. In New York, where additional information is collected, deliveries to plants in June are estimated at 728 million pounds of milk and milk equivalent of cream, 6 percent above June deliveries last year and further above deliveries in earlier years.

In the EAST NORTH CENTRAL STATES pastures were excellent except in parts of Illinois and, with moderate temperatures, production per cow was the highest reported for July 1 with the exception of 1929.

In the SOUTH, where pastures improved greatly during June, milk production per cow held up better than usual during the month. In the South Central States, milk production per cow on the first of the month exceeded the corresponding 10-year average for the first time this year on July 1, but was still materially below a year ago.

In the WEST NORTH CENTRAL STATES milk production per cow on July 1 was well above average but not quite equal to previous high records. Much of the area, particularly the western portion, was beginning to need rain before the end of June. Pastures showed more than the usual decline during June and on July 1 were seriously affected by drought in parts of Nebraska and Kansas. Milk production declined considerably during June, and probably also in early July, as the need for rain was becoming increasingly urgent. Better than average weather during the last half of July is needed to prevent more than the usual decline during the month.

In the WESTERN STATES pastures were unusually early this year and the up-swing in milk production came earlier than usual. Production per cow was very high on June 1 and was still high on July 1 but the decline during the month was rapid and, with pastures drying over large areas in late June and early July from lack of rain, milk production is expected to decline more than usual during July unless there is a material change in the situation. Local variations will depend in part on the proportion of the milk cows that are on irrigated pastures and on the incidence of summer rains.

The condition of pastures on July 1 was reported by more than 23,000 crop correspondents, each man giving the condition as a percentage of what he considered normal for his locality at that season. These reports were averaged by counties and the condition indicated in each of the various parts of the country is shown by the somewhat generalized map on the front cover. In most of the important dairy area from Wisconsin and Indiana eastward through New England the condition of pastures was reported as 90 or higher, which usually indicates lush pastures for the season and a surplus of grass available for later feed. In all but 11 of the 48 States the reported condition averaged 80 or higher, which usually means that the condition was not seriously below the long-term average for the date and that the milk cows were securing plenty of grass. In only 5 States (Nebraska, Colorado, Utah, Arizona and Oregon) was the condition reported below the average during the 10-year (1929-38) period which includes the recent drought years. In portions of Nebraska and Kansas and a corner of Colorado the condition reported was below 50, a point which usually indicates severe drought conditions and some forced reductions in livestock.

The State averages, put together in proportion to the importance of each State in dairy production, gave a United States average for dairy pastures of 85.5 percent of normal, a little lower than on July 1 of 1935 and 1938 but otherwise the highest for July 1 since 1929.

Dairy pastures: Condition as percent of "normal", July 1,
by major groups of States, 1920-40

Year	East		West		United States	
	Percent	Percent	Percent	Percent	Percent	Percent
Av. 1920-29	85.2	84.4	85.2	81.8	85.9	85.7
Av. 1930-34	77.8	66.2	64.6	71.2	64.9	74.0
1935	86.2	91.5	88.2	75.7	83.6	82.9
1936	69.6	61.8	57.1	48.4	45.8	79.7
1937	91.9	90.1	79.3	82.5	72.9	80.2
1938	84.1	90.3	84.9	87.8	84.7	85.1
1939	73.2	87.8	79.1	76.3	81.6	71.7
1940	93.6	93.0	76.5	83.5	81.0	81.6

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DAIRY PRODUCTION

State	Milk Produced per Milk Cow in :					
	Herds Kept by Reporters 1/		Condition of Dairy Pastures 2/			
	July 1 Av. 1929-38	July 1 1939	July 1 1940	July 1 Av. 1929-38	July 1 1939	July 1 1940
Me.	16.4	17.5	17.3	86.4	84	90
N.H.	17.0	17.4	17.7	85.1	83	91
Vt.	17.5	18.4	19.6	87.0	93	96
Mass.	18.8	18.8	19.5	84.2	73	91
R.I.	3/	3/	3/	84.8	69	90
Conn.	18.5	20.5	19.2	87.4	66	95
N.Y.	21.2	21.4	22.9	79.7	71	96
N.J.	20.3	20.0	20.9	78.7	59	86
Pa.	19.5	19.5	21.3	77.7	71	92
N.Atl.	19.64	20.14	21.31	80.8	73.2	93.6
Ohio	18.6	18.9	20.0	73.2	84	96
Ind.	16.7	17.5	18.1	73.0	83	94
Ill.	16.8	18.3	18.5	73.5	91	86
Mich.	21.1	21.5	22.2	77.1	83	96
Wis.	21.4	22.5	22.7	78.0	88	93
E.N.Cent.	19.48	20.41	20.72	75.7	87.8	93.0
Minn.	19.4	20.3	20.7	75.4	85	80
Iowa	17.3	17.9	18.3	78.1	82	82
Mo.	12.0	13.1	13.6	69.8	91	82
N.Dak.	17.6	19.7	19.4	60.9	74	76
S.Dak.	15.8	16.9	17.2	61.8	60	73
Nebr.	16.1	18.1	17.6	71.0	69	59
Kans.	15.0	15.7	15.2	68.0	72	70
W.N.Cent.	16.40	17.56	17.59	71.8	79.1	76.5
Del.	3/	3/	3/	77.7	66	86
Md.	15.9	17.0	17.5	75.5	77	80
Va.	13.6	13.2	13.8	78.1	72	90
W.Va.	14.7	14.8	14.7	73.6	76	89
N.C.	12.7	13.8	13.3	74.9	79	82
S.C.	10.8	10.9	12.7	66.8	68	75
Ga.	9.2	10.1	10.0	68.2	83	80
Fla.	3/	3/	3/	77.1	84	81
S.Atl.	12.25	12.80	13.17	73.9	76.3	83.5
Ky.	13.6	14.1	14.6	72.9	90	89
Tenn.	11.6	12.8	12.1	69.3	87	77
Ala.	3/	3/	3/	68.4	90	81
Miss.	8.4	9.0	8.1	69.7	88	80
Ark.	10.2	10.7	10.4	71.3	88	82
La.	3/	3/	3/	70.3	81	82
Okla.	12.2	14.1	13.0	67.0	77	77
Tex.	10.3	10.7	10.5	70.2	69	81
S.Cent.	10.67	11.54	11.04	69.8	81.6	81.0
Mont.	17.3	21.2	19.3	70.4	89	89
Idaho	21.0	21.9	21.3	85.6	82	86
Wyo.	16.1	17.8	19.8	81.7	74	85
Colo.	16.5	17.4	18.7	72.9	61	67
N.Mex.	3/	3/	3/	67.1	61	71
Ariz.	3/	3/	3/	79.5	73	76
Utah	3/	3/	3/	75.0	69	68
Nev.	3/	3/	3/	81.3	84	89
Wash.	21.3	22.2	22.8	81.6	80	82
Oreg.	19.5	20.3	20.7	84.1	74	81
Calif.	19.4	20.9	20.4	75.4	64	76
West.	18.18	20.17	20.18	77.7	71.7	81.6
U.S.	16.30	17.27	17.43	74.9	79.8	85.5

1/ Averages represent the reported daily milk production of herds kept by reporters divided by the total number of milk cows (in milk or dry) in these herds. Figures for New England States are based on combined returns from Crop and Special Dairy reporters and are weighted by counties. Figures for other States, regions, and U. S. are based on returns from Crop Reporters only.

2/ State averages are based on reports by crop correspondents. For regional and U.S. averages the States are combined in proportion to the importance of pastures to dairy production on July 1.

3/ State averages omitted because of instability, but reports are included in arriving at regional averages.

DAIRY PRODUCTION INDICATIONS AND THEIR USE

The Condition of Dairy Pastures. The quantity and the quality of the feed that milk cows obtain from pastures in the United States cannot be measured. But by properly combining the reports of crop correspondents on the condition of pastures, it is possible to obtain a series of averages which show changes in the dairy pasture situation with sufficient precision to answer most needs. Changes in dairy pastures account for so many of the month-to-month irregularities in milk production that pastures are about the first thing to consider when analyzing current changes or trying to forecast milk production during approaching weeks.

When comparing records of pastures and of milk production per cow in the United States, either for the same date in successive years or for successive months in the same year, a difference in pastures of 5 percent of normal tends to cause a difference of about 1 percent in production per cow, other things being equal. This relationship is close enough for most rough calculations.

But while this relationship may show the separate influence of a change in the condition of pastures on milk production, it does not explain any large part of the production variations. Sometimes changes in production appear to have no relation to pastures. Early in June, except in years of early drought like 1934, the cows can nearly always get plenty of grass. In later months, deficiencies in pastures in one part of the country are often offset by heavier feeding. This may take place almost immediately in the areas affected by drought or it may be delayed until the need for additional milk supplies raises prices enough to make more liberal feeding profitable. The increase may then appear far from the drought area and in sections where feed supplies are plentiful. When the feeding is delayed a period of poor pastures may reduce summer production and yet not seem to affect the total production for the year. Furthermore, when pasture conditions continue poor for so long that they materially reduce the quantities of dairy products put into storage, their effect on prices and rates of feeding tend to be cumulative, thus supporting a production per cow higher than the condition of the pastures would seem to justify.

While pastures have an important temporary influence on production they do not determine production. During the recent years for which we have records, including years showing wide differences in pastures, in feed supplies and in numbers of milk cows, the per capita production of milk has shown only small variations. The seasonal trend of production is determined primarily by the proportion of the cows freshening at each season, and this shows some cyclical and local variations that are hard to measure or predict.

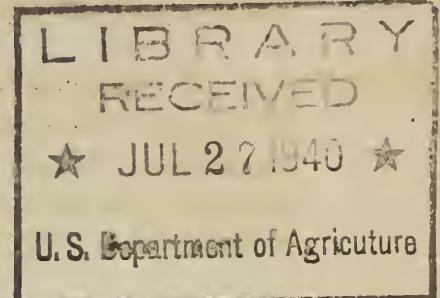
To measure the effect of pastures on milk production during a particular period of the year or within a State or smaller area careful allowance has to be made both for factors that are related to good pastures and for other factors that affect production. Good pastures, for example, usually result from ample rain and from temperatures that are also favorable for milk production. Furthermore, years of good pastures have nearly all been years of large hay crops, and most of them, except 1924, have been fair years for feed grains. The droughts of 1933 and 1934 came at a time when there were more milk cows on the farms than were needed and the need for milk would not have supported a high production per cow even if pastures had been average. The tendency for a decline in pastures in the country as a whole to raise prices by decreasing production does not ordinarily apply to areas affected merely by local droughts. In the spring and fall, comparisons also are affected by changes in the number of States included in the dairy pasture averages, for each State is included only during its usual pasture season.

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

STATISTICAL SUPPLEMENT

TO

DAIRY PRODUCTION



Prepared to supply background data for the use of those who follow the current dairy statistics presented in the monthly publication DAIRY PRODUCTION issued by the Agricultural Marketing Service on the 15th of each month. Included are monthly figures from 1934 to date on the several series that are published currently, together with supplementary notes relative to sources and methods of computation.

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Table 1. - Milk production per cow in herd: Average per day on the first of the month as reported by crop correspondents, United States, 1934 to date.

Date : 1934-38 :	Average :		1934	1935	1936	1937	1938	1939	1940
	1934	1935							
Jan. 1	11.37	11.23	10.68	11.27	11.81	11.88	12.33	12.43	
Feb. 1	11.67	11.47	11.16	11.60	11.90	12.24	12.93	12.65	
Mar. 1	12.18	11.75	11.53	12.24	12.42	12.98	13.40	13.62	
Apr. 1	13.11	12.44	12.51	13.36	13.11	14.12	14.51	14.45	
May 1	14.45	13.54	13.85	14.48	14.58	15.79	15.63	15.42	
June 1	16.78	15.11	16.41	16.99	17.39	17.99	17.98	18.03	
July 1	16.24	14.72	16.52	16.00	16.76	17.19	17.27		
Aug. 1	14.27	13.00	14.41	13.71	14.85	15.40	15.10		
Sept. 1	13.23	12.55	13.53	12.57	13.29	14.23	14.17		
Oct. 1	12.54	11.87	12.24	12.82	12.63	13.15	12.82		
Nov. 1	11.80	11.35	11.31	12.20	11.74	12.42	12.30		
Dec. 1	11.29	10.89	11.05	11.38	11.32	11.83	12.09		

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FACTORS AFFECTING MILK PRODUCTION

Table 2. - Grain fed per milk cow: Average per day on the first of the month in herds kept by dairy correspondents, United States, 1934 to date. 1/

Date	Average	1934	1935	1936	1937	1938	1939	1940
	: 1934-38	:	:	:	:	:	:	:
<u>Pounds</u>								
Jan. 1	4.93	4.73	4.25	5.33	4.80	5.53	5.66	5.51
Feb. 1	5.02	4.74	4.29	5.40	4.91	5.74	5.86	6.13
Mar. 1	5.15	4.90	4.50	5.56	4.94	5.85	5.98	6.18
Apr. 1	5.08	4.89	4.39	5.45	4.91	5.75	5.92	6.02
May 1	4.51	4.31	3.99	5.02	4.34	4.88	5.15	5.43
June 1	2.60	2.56	2.13	2.96	2.47	2.88	2.95	3.20
July 1	2.32	2.22	1.86	2.76	2.15	2.62	2.56	
Aug. 1	2.48	2.34	1.96	3.02	2.33	2.75	2.80	
Sept. 1	2.64	2.36	2.19	3.09	2.62	2.95	3.03	
Oct. 1	2.98	2.52	2.55	3.19	3.22	3.40	3.60	
Nov. 1	3.65	3.01	3.44	3.56	4.06	4.18	4.61	
Dec. 1	4.31	3.57	4.26	4.11	4.73	4.90	5.03	

1/ Based on quarterly reports from all States, with monthly figures interpolated on basis of reports from some of the more important dairy States. Computed by States from total of amounts reported in answer to question "How many pounds of grain (including mill feeds and concentrates) were fed yesterday to all milk cows on your farm?" and from the number of milk cows in the reported herds. Averages combined in proportion to the estimated number of milk cows in each State.

Table 3.- Dairy pastures; Condition as percent of "normal" on the first of the month, United States, 1934 to date. 1/

Date	Average	1934	1935	1936	1937	1938	1939	1940
	: 1934-38	:	:	:	:	:	:	:
<u>Percent</u>								
Apr. 1	72.4	70.1	73.7	69.6	66.1	82.5	74.7	70.6
May 1	73.2	66.0	73.5	71.2	71.3	84.0	77.5	74.0
June 1	75.0	53.3	78.8	77.0	79.8	86.3	74.1	82.6
July 1	73.9	51.5	86.7	60.9	83.9	86.5	79.8	
Aug. 1	65.7	43.8	83.6	40.9	76.1	84.3	68.7	
Sept. 1	63.2	47.0	77.7	42.3	70.5	78.4	68.8	
Oct. 1	67.9	59.2	75.1	59.9	67.4	77.7	58.5	
Nov. 1	66.1	59.7	69.5	64.1	66.6	70.7	57.8	

1/ From June 1 to September 1 the United States averages of condition of "dairy pastures" differ from the averages for "pasture" only in that the State averages are recombined using weights proportional to the usual annual production of milk and butterfat in each State. On other dates weights are assigned only to States where the milk cows are usually on pasture at that season.

PRODUCTION OF MANUFACTURED DAIRY PRODUCTS

Table 4. - Creamery butter: Monthly production, United States, 1934 to date.

Month:	Average : 1934-38 :	1934	1935	1936	1937	1938	1939 1/	1940 1/
<u>Thousand pounds</u>								
Jan.	112,115	119,775	106,056	110,666	107,957	116,122	127,170	126,040
Feb.	107,188	111,381	100,512	108,744	102,963	112,340	121,435	125,265
Mar.	121,799	127,476	110,166	121,543	121,074	128,735	139,110	136,625
Apr.	135,656	136,482	129,482	133,290	131,396	147,628	143,615	147,745
May	182,933	177,980	179,879	177,847	181,700	197,259	192,410	188,645
June	195,302	185,396	199,696	190,699	198,191	202,528	199,660	
July	174,471	174,943	184,161	156,463	171,687	185,099	180,235	
Aug.	156,358	165,190	159,285	141,556	147,069	168,688	165,780	
Sept.	139,583	143,761	141,786	133,021	128,266	151,081	134,515	
Oct.	128,987	133,817	119,748	135,493	118,878	136,999	121,595	
Nov.	108,131	112,577	96,462	111,535	103,242	116,841	112,285	
Dec.	110,805	105,930	105,147	108,550	111,548	122,852	118,430	

1/ Preliminary

Table 5. - American cheese: Monthly production, United States, 1934 to date.

Month:	Average : 1934-38 :	1934	1935	1936	1937	1938	1939 1/	1940 1/
<u>Thousand pounds</u>								
Jan.	26,940	24,573	22,197	28,881	23,515	30,535	28,960	30,440
Feb.	26,286	24,867	21,919	26,211	27,765	30,670	27,820	32,780
Mar.	31,956	30,915	26,914	30,804	32,262	38,884	34,900	39,585
Apr.	38,445	36,546	32,825	35,324	39,061	48,469	41,390	47,620
May	55,465	48,858	48,926	53,008	56,268	70,263	61,620	67,780
June	63,827	55,610	60,560	64,145	64,454	74,363	69,515	
July	55,796	51,126	55,238	51,029	55,706	65,881	59,345	
Aug.	49,609	45,211	53,101	45,228	48,824	55,682	53,405	
Sept.	43,789	37,983	49,053	44,933	42,701	44,277	45,195	
Oct.	40,735	33,987	42,114	45,629	38,875	43,069	41,310	
Nov.	29,421	24,824	28,811	33,088	30,209	30,173	30,145	
Dec.	26,661	20,991	27,341	29,296	27,401	28,276	28,600	

1/ Preliminary

For current production figures see monthly report creamery butter and American cheese production estimates, issued by the Agricultural Marketing Service about the 25th of the month.

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PRODUCTION OF MANUFACTURED DAIRY PRODUCTS

Table 6. - Evaporated milk (case): Monthly production, United States, 1934 to date.

Month	Average ^{1/} : 1934-38 :	1934	1935	1936	1937	1938	1939 <u>1/</u>	1940 <u>1/</u>
<u>Thousand pounds</u>								
Jan.	114,970	97,752	113,393	117,253	119,152	127,302	131,121	158,656
Feb.	118,206	97,669	121,134	113,951	126,509	131,765	139,670	170,397
Mar.	149,337	127,279	146,500	148,174	153,290	171,440	185,441	203,619
Apr.	178,534	148,674	177,264	178,657	184,829	203,249	199,184	225,077
May	237,155	189,096	236,512	235,361	239,136	285,673	268,533	281,960
June	249,561	208,978	252,831	254,858	252,535	278,601	267,457	
July	205,678	192,643	202,274	200,279	205,752	227,443	226,715	
Aug.	172,661	173,260	160,522	181,209	162,506	185,808	191,382	
Sept.	151,065	146,883	134,809	184,136	138,376	151,122	164,723	
Oct.	135,033	134,189	105,710	186,141	124,126	125,000	143,988	
Nov.	102,327	101,183	86,337	129,736	92,322	102,056	125,529	
Dec.	105,665	93,964	101,604	114,004	104,012	114,739	135,536	

1/ Preliminary.

For current details see monthly Evaporated and Condensed Milk Report, issued by the Agricultural Marketing Service about the 24th of the month.

Table 7. - Four dairy products: Milk equivalent of monthly production, United States, 1934 to date. 1/

Month	Average ^{2/} : 1934-38 :	1934	1935	1936	1937	1938	1939 <u>3/</u>	1940 <u>3/</u>
<u>Million pounds</u>								
Jan.	2,993	3,095	2,807	2,990	2,935	3,143	3,367	3,414
Feb.	2,887	2,921	2,697	2,907	2,838	3,070	3,250	3,443
Mar.	3,340	3,405	3,024	3,319	3,344	3,606	3,806	3,855
Apr.	3,768	3,698	3,571	3,690	3,697	4,182	4,014	4,221
May	5,092	4,809	4,950	4,957	5,085	5,658	5,419	5,461
June	5,469	5,075	5,541	5,388	5,548	5,796	5,658	
July	4,827	4,757	5,022	4,381	4,771	5,205	5,030	
Aug.	4,291	4,405	4,376	3,952	4,067	4,657	4,576	
Sept.	3,833	3,845	3,906	3,781	3,549	4,085	3,772	
Oct.	3,549	3,575	3,303	3,854	3,291	3,725	3,422	
Nov.	2,912	2,949	2,625	3,082	2,793	3,114	3,062	
Dec.	2,943	2,744	2,827	2,940	2,963	3,242	3,197	

1/ Products included and conversion factors used are as follows: Creamery butter x 21, all cheese (except skim) x 10, canned evaporated and condensed milk (unskimmed) x 2.2. The quantities shown are not the estimated quantities of milk used but merely indications of the relative volumes of certain dairy products manufactured in each month, with the various products combined in terms of fixed milk equivalents. The latter have not been adjusted for seasonal and regional variations in test or for duplication. Ice cream and other products not estimated currently are omitted.

2/ Computed from 5-year average production of each product by conversion factors shown.

3/ Monthly totals for 1939 and 1940 are preliminary estimates. They have not been adjusted to allow for the possible inclusion of condensed skim milk.

STOCKS OF DAIRY PRODUCTS

Table 8. - Creamery butter in cold storage: Total holdings (including Government) on the first of the month, United States, 1934 to date.

Date	Average : 1934-38	1934	1935	1936	1937	1938	1939	1940
Thousand pounds								
Jan. 1	60,546	111,249	47,175	40,117	61,234	42,953	128,770	55,462
Feb. 1	38,070	75,995	18,907	21,507	42,734	31,211	111,354	29,189
Mar. 1	19,005	36,853	8,110	8,217	20,678	21,167	92,780	18,366
Apr. 1	9,537	15,351	5,341	5,346	6,700	14,947	78,909	8,875
May 1	9,812	11,838	5,676	4,997	6,406	20,144	70,909	9,504
June 1	31,917	27,161	33,096	21,157	22,904	55,266	84,437	25,359
July 1	88,988	70,148	96,392	73,816	83,119	121,467	131,609	
Aug. 1	131,751	108,748	149,628	103,259	123,863	173,257	165,183	
Sept. 1	145,113	120,467	156,855	112,106	134,885	201,252	172,825	
Oct. 1	142,421	125,047	148,822	108,835	118,697	210,703	154,594	
Nov. 1	126,108	111,073	120,210	105,368	98,524	195,263	128,111	
Dec. 1	93,734	81,034	71,948	88,866	66,191	160,632	89,783	

Table 9. - Creamery butter in cold storage: Commercial holdings on the first of the month, United States, 1934 to date. 1/

Date	Average : 1934-38	1934 <u>2/</u>	1935 <u>2/</u>	1936 <u>2/</u>	1937 <u>2/</u>	1938	1939	1940
Thousand pounds								
Jan. 1	60,546					42,953	32,964	40,587
Feb. 1	38,070					31,211	21,486	24,501
Mar. 1	19,005					21,167	8,838	16,309
Apr. 1	9,537					14,947	6,554	7,500
May 1	9,442					18,295	8,854	8,261
June 1	31,465					53,007	32,710	25,102
July 1	88,029					116,671	93,108	
Aug. 1	127,940					154,202	132,826	
Sept. 1	131,426					132,815	138,760	
Oct. 1	121,987					108,532	128,225	
Nov. 1	103,775					83,598	106,883	
Dec. 1	72,206					52,991	71,685	

1/ Commercial stocks exclude D.P.M.A., F.S.C.C., and relief holdings.

2/ Prior to May 1938 commercial holdings are the same as total holdings shown in table 8.

Table 10. - American cheese in cold storage: Holdings on the first of the month, United States, 1934 to date.

Date	Average: : 1934-38:	1934	1935	1936	1937	1938	1939	1940
Thousand pounds								
Jan. 1	87,773	77,773	89,878	86,537	95,418	89,258	102,563	86,805
Feb. 1	76,650	65,476	71,007	78,197	88,091	80,479	90,401	75,181
Mar. 1	67,754	54,934	60,943	68,363	80,713	73,815	77,270	66,584
Apr. 1	61,414	49,856	54,769	62,261	73,822	66,361	68,812	61,510
May 1	58,183	52,217	46,593	55,756	70,584	65,767	62,866	65,175
June 1	62,857	58,073	48,320	56,946	71,603	79,345	64,750	72,904
July 1	80,694	79,925	64,395	70,282	89,191	99,676	81,262	
Aug. 1	95,035	97,018	82,397	80,735	100,418	114,607	97,448	
Sept. 1	103,986	103,805	92,767	90,471	105,026	127,862	103,594	
Oct. 1	106,418	108,624	102,661	98,206	101,178	121,423	97,530	
Nov. 1	103,772	102,832	100,670	102,847	97,160	115,351	93,987	
Dec. 1	98,389	96,688	92,912	98,975	93,633	109,738	90,219	

For additional detail see monthly Cold Storage Report issued by the Agricultural Marketing Service about the 12th of each month.

STOCKS OF DAIRY PRODUCTS

Table 11. - Evaporated milk (case) stocks: Quantity in manufacturers' hands on the first of the month, United States, 1934 to date.

Date	Average : 1934-38	1934	1935	1936	1937	1938	1939	1940
<u>Thousand pounds</u>								
Jan. 1	176,141	210,407	156,793	72,916	258,904	181,686	205,073	186,081
Feb. 1	132,038	168,502	59,791	66,094	208,911	156,894	150,311	156,253
Mar. 1	99,360	112,936	28,914	45,375	176,912	132,663	120,397	150,458
Apr. 1	91,629	99,176	39,993	42,597	152,575	123,801	109,882	173,378
May 1	113,182	117,115	74,145	61,775	161,208	151,669	134,625	207,740
June 1	195,448	151,691	179,684	141,774	242,390	261,703	209,044	287,778
July 1	255,988	153,149	287,204	186,359	302,435	350,790	292,393	
Aug. 1	253,100	205,545	339,978	99,638	227,696	392,641	341,686	
Sept. 1	262,226	167,864	358,780	102,021	263,324	419,142	355,071	
Oct. 1	260,988	175,129	343,132	160,682	227,710	398,287	135,135	
Nov. 1	257,120	215,700	229,065	251,751	244,766	344,316	175,646	
Dec. 1	215,182	203,402	91,250	278,511	218,372	284,375	188,290	

For additional current details see monthly Evaporated and Condensed Milk Report, issued by the Agricultural Marketing Service about the 24th of the month.

Table 12. - Five dairy products: Milk equivalent of storage holdings on the first of the month, United States, 1934 to date. 1/

Date	Average : 1934-38 2/	1934	1935	1936	1937	1938	1939	1940
<u>Million pounds</u>								
Jan. 1	2,779	3,884	2,432	2,100	3,105	2,376	4,535	2,748
Feb. 1	2,059	2,886	1,390	1,572	2,485	1,966	3,861	1,970
Mar. 1	1,462	1,798	957	1,102	1,834	1,616	3,210	1,600
Apr. 1	1,163	1,242	842	961	1,385	1,385	2,776	1,367
May 1	1,206	1,255	877	946	1,367	1,581	2,608	1,505
June 1	1,982	1,742	1,782	1,555	1,977	2,857	3,158	2,184
July 1	3,622	2,859	3,654	3,007	3,690	4,803	4,629	
Aug. 1	4,682	4,079	5,089	3,541	4,507	6,192	5,585	
Sept. 1	5,056	4,290	5,389	3,823	4,815	6,965	5,799	
Oct. 1	5,006	4,442	5,265	3,979	4,323	7,024	4,841	
Nov. 1	4,591	4,131	4,349	4,163	3,855	6,458	4,355	
Dec. 1	3,709	3,350	2,899	3,801	2,999	5,494	3,533	

1/ Computed from cold storage holdings of creamery butter x 21, cold-storage holdings of cheese (except skim) x 10, manufacturers' stocks of condensed and evaporated milk x 2.2, and cold-storage holdings of cream at 840 times the number of 40-quart cans of 40% cream or equivalent in other classes.

2/ The averages shown are computed from the 5-year average holdings of each product multiplied by the conversion factor shown.

PRICES OF DAIRY PRODUCTS

Table 13. - Butterfat: Mid-month price per pound received by farmers, United States, 1934 to date.

Date	Average	1934	1935	1936	1937	1938	1939	1940
	: 1934-38							
C e n t s								
Jan. 15	29.6	16.1	30.5	33.5	34.3	33.5	25.2	30.0
Feb. 15	31.4	21.6	35.9	34.9	33.9	30.5	24.9	29.7
Mar. 15	30.2	23.5	31.2	31.7	34.9	29.8	22.7	28.4
Apr. 15	29.2	21.0	33.8	31.2	33.0	27.0	21.4	27.5
May 15	26.6	21.5	27.5	27.1	31.6	25.1	21.5	26.9
June 15	25.6	22.2	23.7	27.7	30.8	23.7	22.2	25.6
July 15	26.5	22.1	22.3	32.6	31.1	24.2	22.0	
Aug. 15	27.7	24.3	22.9	35.7	31.6	24.1	22.4	
Sept. 15	28.4	24.0	24.9	35.5	33.4	24.1	24.7	
Oct. 15	28.6	24.3	25.9	33.5	35.1	24.4	26.9	
Nov. 15	30.3	27.2	29.9	33.1	36.2	25.0	28.1	
Dec. 15	32.0	28.2	33.0	33.6	38.4	27.0	28.5	

For current details by States see the mid-month Local Market Price Report issued by the Agricultural Marketing Service about the 29th of the month.

Table 14. - Butter: Monthly average wholesale price per pound, 92 score, Chicago, 1934 to date.

Month	Average	1934	1935	1936	1937	1938	1939	1940
	: 1934-38							
C e n t s								
Jan.	30.24	19.36	32.61	33.60	33.04	32.57	25.52	30.76
Feb.	31.68	24.35	34.98	35.63	33.35	30.09	25.50	29.03
Mar.	30.15	24.52	30.78	31.15	35.00	29.29	23.74	28.03
Apr.	28.60	22.40	32.81	29.71	31.16	26.90	21.95	27.10
May	26.27	23.22	25.96	26.31	30.30	25.57	22.77	26.42
June	26.38	24.22	23.50	28.88	30.00	25.28	23.65	
July	27.35	23.63	23.59	33.41	30.72	25.39	23.23	
Aug.	28.62	26.34	24.38	34.91	31.95	25.50	23.54	
Sept.	28.76	24.86	25.39	33.93	34.11	25.50	27.44	
Oct.	28.98	25.91	27.15	31.39	34.89	25.54	28.38	
Nov.	31.32	29.00	31.52	32.60	36.98	26.51	29.51	
Dec.	32.08	29.50	33.10	33.11	37.34	27.37	29.54	

For current details see daily market reports on butter and cheese issued by the Agricultural Marketing Service at 8 important markets.

Table 15. - American cheese: Wholesale price per pound (twins) in effect on the 15th of the month at Plymouth, Wisconsin, 1934 to date. 1/

Date	Average	1934	1935	1936	1937	1938	1939	1940
	: 1934-38							
C e n t s								
Jan. 15	14.35	9.25	14.00	17.00	16.00	15.50	11.50	15.50
Feb. 15	14.60	12.75	15.75	14.00	16.00	14.50	11.50	15.50
Mar. 15	14.40	13.50	14.50	14.00	16.00	14.00	11.00	13.50
Apr. 15	13.25	10.75	15.00	13.00	15.00	12.50	11.25	13.00
May 15	12.95	11.50	13.75	12.50	14.50	12.50	12.00	13.00
June 15	12.95	12.50	2/12.00	14.00	14.50	11.75	13.00	13.00
July 15	13.25	10.00	12.50	17.00	14.50	12.25	12.00	
Aug. 15	14.20	12.75	13.50	18.00	15.75	11.00	12.50	
Sept. 15	13.85	11.25	14.00	17.50	16.25	10.25	14.75	
Oct. 15	14.25	11.25	14.00	16.50	17.50	12.00	15.00	
Nov. 15	14.40	12.50	15.00	16.00	17.50	11.00	15.00	
Dec. 15	15.20	12.50	17.00	16.00	17.50	13.00	15.00	

1/ Where twins were not quoted, prices of cheddars were used.

2/ No price quoted on June 14--price as of 7th shown.

For current weekly prices see Saturday daily market report on butter and cheese issued by the Agricultural Marketing Service at 8 important markets.

PRICES OF DAIRY PRODUCTS

Table 16. - Milk Wholesale (all purposes): Mid-month price per 100 pounds received by farmers, United States, 1934 to date.

Date	Average :		1934	1935	1936	1937	1938	1939	1940
	1934-38	1934							
D o l l a r s									
Jan. 15	1.87	1.47	1.84	1.93	2.05	2.08	1.79	1.97	
Feb. 15	1.85	1.51	1.86	1.91	2.02	1.96	1.73	1.94	
Mar. 15	1.78	1.49	1.79	1.82	1.98	1.84	1.59	1.84	
Apr. 15	1.69	1.42	1.75	1.72	1.87	1.69	1.46	1.75	
May 15	1.60	1.39	1.61	1.64	1.79	1.57	1.42	1.66	
June 15	1.57	1.43	1.52	1.64	1.75	1.52	1.45	1.61	
July 15	1.66	1.48	1.54	1.88	1.82	1.56	1.52		
Aug. 15	1.72	1.56	1.59	1.97	1.91	1.59	1.64		
Sept. 15	1.80	1.60	1.65	2.02	2.03	1.70	1.78		
Oct. 15	1.86	1.67	1.74	2.04	2.11	1.76	1.90		
Nov. 15	1.96	1.77	1.87	2.10	2.22	1.85	2.01		
Dec. 15	1.98	1.80	1.93	2.08	2.22	1.86	2.00		

For current details by States see mid-month Local Market Price Report issued by the Agricultural Marketing Service about the 29th of the month.

Table 17. - Milk for city distribution: Price per 100 pounds paid by dealers for standard grade milk, 3.5% butterfat basis, United States, 1934 to date.

Month	Average :		1934	1935	1936	1937	1938	1939	1940
	1934-38	1934							
D o l l a r s									
Jan.	2.11	1.81	2.05	2.04	2.32	2.35	2.23	2.25	
Feb.	2.11	1.80	2.07	2.05	2.33	2.32	2.21	2.25	
Mar.	2.11	1.79	2.09	2.04	2.33	2.31	2.20	2.25	
Apr.	2.10	1.81	2.07	2.03	2.31	2.29	2.15	2.23	
May	2.09	1.81	2.07	2.02	2.29	2.26	2.11	2.18	
June	2.08	1.82	2.06	2.01	2.28	2.23	2.10	2.18	
July	2.10	1.86	2.04	2.06	2.30	2.23	2.10		
Aug.	2.13	1.91	2.03	2.20	2.31	2.22	2.12		
Sept.	2.16	1.97	2.03	2.26	2.32	2.22	2.15		
Oct.	2.18	2.02	2.03	2.28	2.32	2.23	2.19		
Nov.	2.18	2.03	2.03	2.29	2.34	2.23	2.22		
Dec.	2.19	2.04	2.03	2.31	2.35	2.23	2.25		

For current regional and market details see monthly Fluid Milk Market Report issued by the Agricultural Marketing Service about the 12th of the month.

Table 18. - Milk, retail: Price per quart, delivered, 25 markets, 1934 to date.

Month	Average :		1934	1935	1936	1937	1938	1939	1940
	1934-38	1934							
C e n t s									
Jan.	11.70	10.74	11.46	11.39	12.40	12.53	12.17	12.34	
Feb.	11.69	10.59	11.43	11.49	12.40	12.52	12.14	12.38	
Mar.	11.69	10.55	11.54	11.44	12.40	12.52	12.03	12.38	
Apr.	11.64	10.52	11.44	11.40	12.36	12.48	11.78	12.20	
May	11.61	10.56	11.44	11.40	12.28	12.35	11.72	12.04	
June	11.59	10.67	11.40	11.40	12.28	12.22	11.67	12.06	
July	11.63	10.80	11.26	11.57	12.32	12.22	11.72		
Aug.	11.75	10.94	11.20	12.03	12.40	12.18	11.85		
Sept.	11.81	11.04	11.16	12.12	12.52	12.19	12.02		
Oct.	11.88	11.32	11.16	12.15	12.56	12.19	12.22		
Nov.	11.91	11.32	11.22	12.29	12.59	12.15	12.28		
Dec.	11.96	11.36	11.32	12.36	12.60	12.15	12.38		

1/ Straight average of the prices reported from 25 cities, the higher figure being taken where a range of prices was reported.

For current details by markets see Fluid Milk Market Report.

